
ANN ROBERTSON-TAIT

PRESENT POSITION

Vice President, Business Development / Senior Geologist

EXPERTISE

- Integration of geoscientific and engineering analyses to solve resource development and management problems
- Development of conceptual hydrogeologic models of geothermal systems from multi-disciplinary data
- Interpretation of downhole data from geothermal wells
- Geothermal resource due diligence for project financing
- Estimation of recoverable geothermal energy reserves
- Risk analysis and mitigation of environmental aspects of geothermal development
- Evaluation and development of Enhanced Geothermal Systems

EDUCATION

M.Sc. in Geology, University of Auckland (New Zealand), 1984 (Fulbright Scholar)

B.S. in Geology (Honors), Florida Atlantic University, 1981

Speaks and reads Spanish and French

EXPERIENCE

GeothermEx, Inc., 1985-present

Integration of geological, geochemical, geophysical and well test data to develop conceptual models and estimate energy reserves for numerous geothermal fields around the world.

Examples include:

- Four geothermal fields in northeastern Iceland, 2007 - present
- Kawerau, New Zealand, 2006 - present
- Amatitlán, Guatemala, 2005
- Clear Lake, California, 2004

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- Raft River, Idaho, 2003
- Yanaizu-Nishiyama, Japan, 2001 – 2002
- Several geothermal areas in Nicaragua, 1999 - 2000
- Karaha - Telaga Bodas, Indonesia, 1998
- Tiwi and MakBan, Philippines, 1997
- Wasabizawa, Japan, 1996 - 1997
- Patuha, Indonesia, 1996 – 1997
- Puna, Hawaii, 1994 – 1995
- Mammoth (Long Valley), California, 1992-1993
- Cerro Prieto, Mexico, 1990
- Steamboat, Nevada, 1987 and various times thereafter
- Dixie Valley, Nevada, 1986
- Latera, Italy, 1985 - 1986

Other pertinent experience includes:

- Management of technical investigations for EGS projects in New Mexico and Nevada, including specialized logging programs, geological and geophysical evaluations, well stimulation programs and management of associated research projects
- As an elected Board Member of the Geothermal Energy Association (an organization based in Washington, DC representing the US geothermal industry), guidance on research initiatives and State and National policy decisions affecting geothermal development in the United States
- Provision of expert witness testimony for resource consenting in New Zealand
- Evaluation of induced seismicity, productivity decline trends and assessment of injection benefits at The Geysers steam field, California
- Evaluation of historical production and drilling data from various geothermal fields in The Philippines
- Evaluation of resource development and utilization for compliance with bank financing requirements at The Geysers, Mammoth (Long Valley), Salton Sea, Coso and East Mesa (all in California); Dixie Valley, Soda Lake, Stillwater Steamboat and Empire (Nevada); and Puna (Hawaii).

Research Associate, Ministry of Works and Development, Taupo, New Zealand, 1984

- Compilation, conversion and analysis of 25 years of leveling survey data from the Wairakei field to develop an accessible, organized database.
- Use of geodetic computer programs for coordinate transformation and survey network adjustment.

Associate Hydrogeologist, South Florida Water Management District, 1982 – 1983

- Pump test analysis for water wells.
- Water sampling and mapping for salt water intrusion monitoring program.
- Compilation and analysis of long term water-use data from agricultural, municipal and industrial users.

AFFILIATIONS

Geothermal Energy Association (Board Member)

Geothermal Resources Council

International Geothermal Association

CITIZENSHIP

USA

SELECTED PUBLICATIONS

Cost of Electricity from Enhanced Geothermal Systems. The 32nd Stanford Geothermal Workshop, Stanford University, California, January 2007 (co-author).

Is EGS Commercially Feasible? Transactions, Geothermal Resources Council, 2007 (co-author).

The Desert Peak East EGS Project: An Update. Proceedings, World Geothermal Congress, 2005.

Fracture Permeability Evolution in Rock from the Desert Peak EGS Site. Transactions, Geothermal Resources Council, 2004 (co-author).

Geothermal Energy Resource Assessment on Military Lands. The 29th Stanford Geothermal Workshop, Stanford University, California, January 2004 (co-author).

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Selection of an Interval for Massive Hydraulic Stimulation in Well DP 23-1, Desert Peak East EGS Project, Nevada. The 29th Stanford Geothermal Workshop, Stanford University, California, January 2004.

A Numerical Simulation Study of The Performance of Enhanced Geothermal Systems. The 29th Stanford Geothermal Workshop, Stanford University, California, January 2004 (co-author).

Progress and Future Plans at the Desert Peak East EGS Project. Transactions, Geothermal Resources Council, 2003.

Geologic Characterization of Pre-Tertiary Rocks at the Desert Peak East EGS Project Site, Churchill County, Nevada. Transactions, Geothermal Resources Council, 2003 (co-author).

Injection Testing for an Enhanced Geothermal System Project at Desert Peak, Nevada. Transactions, Geothermal Resources Council, 2003 (co-author).

Desert Peak East, Nevada: a step toward EGS commercialization in the Basin and Range. Transactions, Geothermal Resources Council, 2002.

A new geothermal resource map of Nicaragua. Transactions, Geothermal Resources Council, 2001 (co-author).

A case history of numerical modeling of a fault-controlled geothermal system at Beowawe, Nevada. Proceedings of the 26th Stanford Geothermal Workshop, 2001 (co-author), Stanford University, California, January 2001.

Potential sites and experiments for Enhanced Geothermal Systems in the western United States. Proceedings of the World Geothermal Congress, 2000 (co-author).

Utility of the data gathered from the Fenton Hill project for development of Enhanced Geothermal Systems. Proceedings of the World Geothermal Congress, 2000.

Potential for "Enhanced Geothermal Systems" in the western United States. Proceedings of the 4th International Hot Dry Rock Forum, 1998.

The nature and occurrence of geopressured resource areas in the state of California. Proceedings of the World Geothermal Congress, 1995.

Heat source and fluid migration concepts at the Uenotai geothermal field, Akita Prefecture, Japan. Transactions, Geothermal Resources Council, Volume 14, 1990.

Stratigraphic and structural controls of the occurrence of steam at The Geysers. Transactions, Geothermal Resource Council, Volume 13, 1989 (co-author).

Analysis of subsurface compaction and subsidence at Wairakei geothermal field. Proceedings of the 6th New Zealand Geothermal Workshop, University of Auckland, 1984.